		302
	Form a copper layer overlying a patterned dielectric layer	_
		304
	Form a doped layer superjacent the copper layer	
10		306
	Thermally drive dopants from doped layer into copper layer	

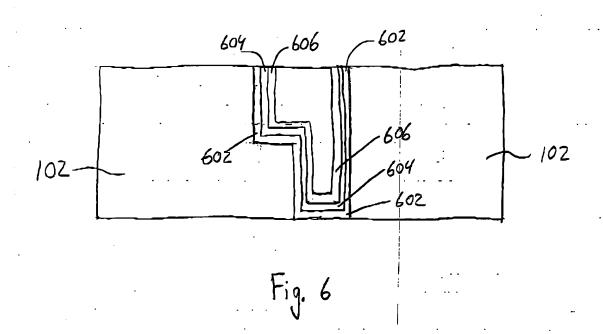
Fig. 3

5

	50
	Form a copper layer overlying a patterned dielectric layer
	50
	Remove excess metal so as to form individual copper interconnect lines
10	50
	Implant dopants into at least the interconnect lines

Fig. 5

Fig.4



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Pattern a dielectric layer to form at least trenches therein

704

Form a copper-diffusion barrier over the surfaces of the patterned dielectric layer

706

Deposit a doped seed layer over the barrier layer

708

Deposit a capping layer over the doped seed layer without exposing the doped seed layer to the atmosphere

4 (6 g

Fig. 7

Pattern a dielectric layer to form at least trenches therein

804

Form a copper diffusion barrier over the surfaces of the patterned dielectric layer

806

Deposit a doped seed layer over the barrier layer

808

Deposit a capping layer over the doped seed layer without exposing the doped seed layer to the atmosphere

810

Deposit a copper layer over the capping layer

812

Thermally drive dopants from doped seed layer to upper portions of copper layer while providing atmosphere that reacts with dopant species